

# Delta Shipyards

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NPL Site Overview

August 14, 2012



## Aerial 1974

Houma, LA

165 acre area

Delta Shipyard was part of  
Delta Ironworks.

Sold to Chromalloy  
American Company in  
1969

Sold in 1980 to Delta  
Services Industries of  
Houma.

Property purchased in  
1986 by current owner



# Site Background

- Delta Shipyard consisted of a cleaning and repairing facility for small cargo boats, fishing boats, and oil barges.
- The generated oils and wastewater were sent through a series of separation ponds, after which the oil was recovered and sold. Two pits were reported closed by LDEQ in 1984





## Aerial 1989

4 Pits present in 78, are no longer present, site is no longer in operation.

EPA PA in 1981

LDEQ involvement with numerous violations throughout the 1980's

EPA ESI in 1997

Recommended for EE/CA by Site assessment in 1998

Site visit with LDEQ on January 10, 2012-LDEQ has asked for EPA assistance



**Table 4-1**  
**Delta Shipyard (CERCLIS ID LAD058475419)**  
**On-Site Waste Sampling Results Significantly Above Background Concentrations**

Analyte	Background Concentration		Characterization Sample Concentrations					
	Maximum Background	3 Times Maximum Background	Station Sample Date	P01	P02	P03	P04	P05
			QC Type	Normal	Normal	Normal	Normal	Normal
			Depth	P01-71-1 07/25/96 2.0'-3.0'	P02-71-1 07/25/96 2.0'-3.0'	P03-71-1 07/25/96 2.0'-3.0'	P04-71-1 07/25/96 2.0'-3.0'	P05-71-1 07/25/96 2.0'-3.0'
Volatile Organics								
Ethylbenzene (ug/kg)	ND	-----		8700	3500	4500	660 J	8600
Toluene (ug/kg)	ND	-----		2300 U	2100 U	3800	1700 U	6400
Xylenes (total) (ug/kg)	ND	-----		27000	23000	28000	2000	56000
Semi-Volatile Organics								
2-Methylnaphthalene (ug/kg)	ND	-----		390000	460000	470000	130000	410000
Naphthalene (ug/kg)	ND	-----		130000	160000	160000	48000 J	130000
Phenanthrene (ug/kg)	32	96		91000 J	100000 J	110000 J	90000 U	61000 J C-BSQL
Pesticides								
Endosulfan II (ug/kg)	ND	-----		84	88	89	44 U	62 U
Heptachlor epoxide (ug/kg)	ND	-----		110	49	89	22 U	31 U
Polychlorinated Biphenyls								
No Parameters Above Background								
Metals								
Arsenic (mg/kg)	7.7	23.1		26.1	32.7	27.6	48.2	61.2
Cadmium (mg/kg)	ND	-----		5.6	6.5	5.1	3.5	12.2
Chromium (mg/kg)	18.5	55.5		709	576	520	104	371
Cyanide (mg/kg)	ND	-----		1.1	1.4	0.65	0.54 U	0.82 U
Lead (mg/kg)	117	351		861	952	771	520	561
Mercury (mg/kg)	ND	-----		1.8	1.6	1.2	0.98	0.81
Sodium (mg/kg)	164	492		1330	1360	1980	1590	1200
Zinc (mg/kg)	206	618		1010	1140	1020	808	2160

Shaded Values Exceed 3 Times Maximum Background Concentrations for Constituents Attributable to the Site.

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What's in the Pits

PAH's

Volatiles

Metals

Pesticides

# Past Surface Water Releases

Contaminant	Highest detected level	Type of benchmark	Benchmark level	Pathway	Optional: # wells or residences affected
Barium	26,300 mg/kg			Surface Water	
Benzo(a) pyrene	4.1 mg/kg	Region 3 Freshwater Screening Sediment Value	0.15 mg/kg	Surface Water	
Zinc	10,200 mg/kg	Region 3 Freshwater Screening Sediment Value	121 mg/kg	Surface Water	
Fluoranthene	1.7 mg/kg	Region 3 Freshwater Screening Sediment Value	0.423 mg/kg	Surface Water	

*Results are from releases documented in 1994 and 1997, additional samples from on-site sources and surface water has been conducted and results are pending.*





## Delta Today

Residences have built homes west of pit area

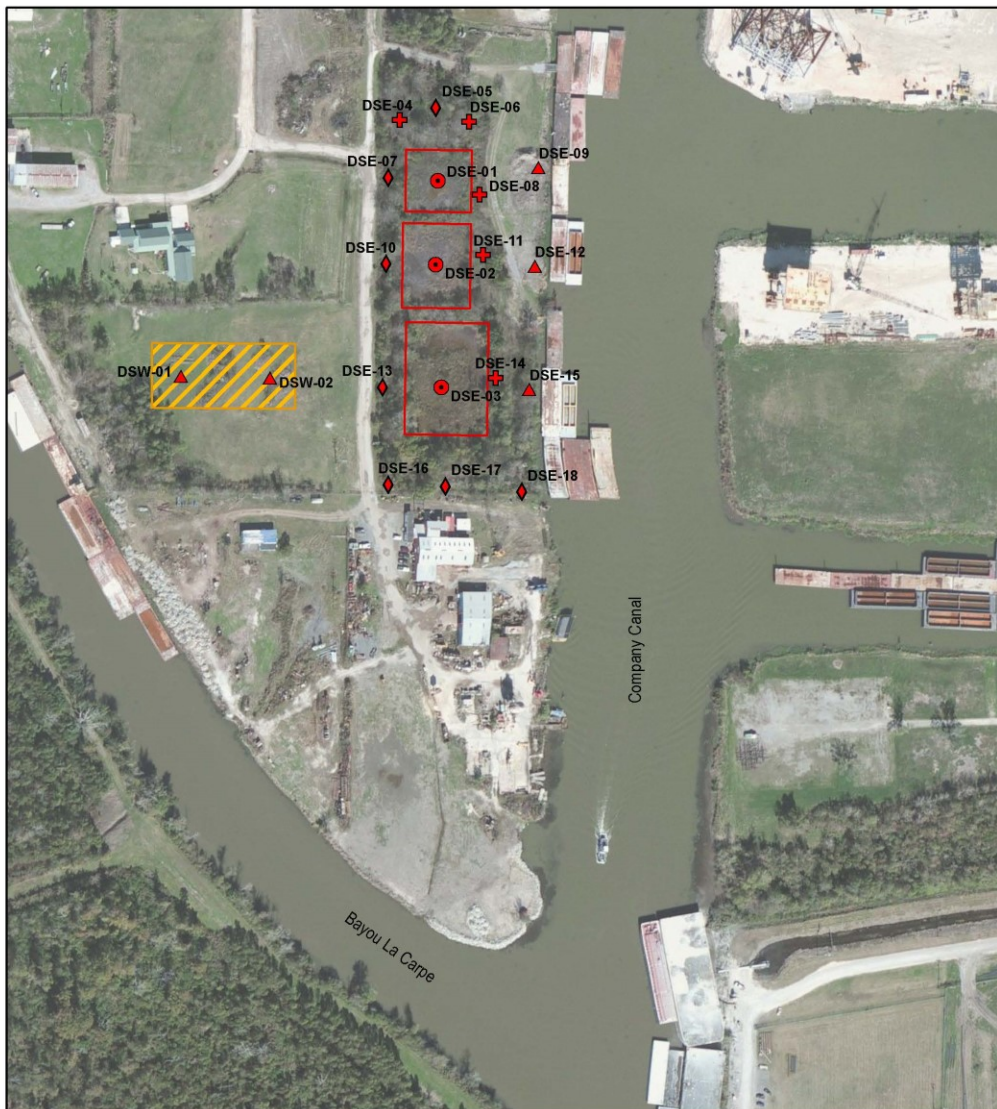
Pits are surrounded by woods, no fence

LDEQ would like to see the pits stabilized to prevent migration via gw, sw and direct human exposure

Site is located in a highly industrial portion of the intercoastal canal

Releases to ground water and surface water are likely occurring





Soil Investigation August 2012

Sludge in pits to 12'

Borings in drainage pathway had visible contamination

Borings along canal showed migration via groundwater

Visible contamination at the PPE

Analytical results pending

#### Legend

- HRS & REMOVAL ASSESSMENT WASTE SAMPLE LOCATION
- ◆ HRS & REMOVAL ASSESSMENT SOIL SAMPLE LOCATION
- ▲ HRS ASSESSMENT SOIL SAMPLE LOCATION
- ✚ REMOVAL ASSESSMENT SOIL SAMPLE LOCATION
- ▨ HISTORICAL PITS
- ▭ EXISTING EVAPORATION PITS

SOURCE: BING MAPS AERIAL HYBRID  
TDD NO: TC-0016-11-10-01-6  
GEOLOGIC NO: LAD058475419



**US EPA REGION 6  
START-3**

**FIGURE 3-1**  
PROPOSED SAMPLE MAP  
SOIL LOCATIONS  
DELTA SHIPYARD REASSESSMENT  
HOUMA  
TERREBONNE PARISH, LOUISIANA

DATE JULY, 2012	PROJECT NO 20406.012.019.0680.01	SCALE AS SHOWN
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FILE: D:\GISData\Projects\GIS\TDD\DeltaShipyard\GIS\Map\FIGURE\_3-1\_PROPOSED\_SAMPLE\_LOCATION\_MAP\_Suk.mxd 11/08/12 AM 7/3/2012 bay





#### Legend

- ▲ PROPOSED SAMPLE LOCATIONS
- ▨ HISTORICAL PITS
- ▭ EXISTING EVAPORATION PITS

TDD NO. TO-0019-11-10-01-B  
CERGLIS NO. LAD058475419

SOURCE: © 2011 National Geographic Society, I-cubed



**US EPA REGION 6  
START-3**

**FIGURE 3-2  
PROPOSED SAMPLE MAP  
SEDIMENT & SURFACE WATER LOCATIONS  
DELTA SHIPYARD REASSESSMENT  
HOUMA  
TERREBONNE PARISH, LOUISIANA**

DATE JULY, 2012	PROJECT NO 20406.012.019.0680.01	SCALE AS SHOWN
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Surface Water Investigation

On-site wetlands are present along southern boundary

Fishing within the intercoastal canal

Visible contamination at PPE

Analytical results pending